

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P260309

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

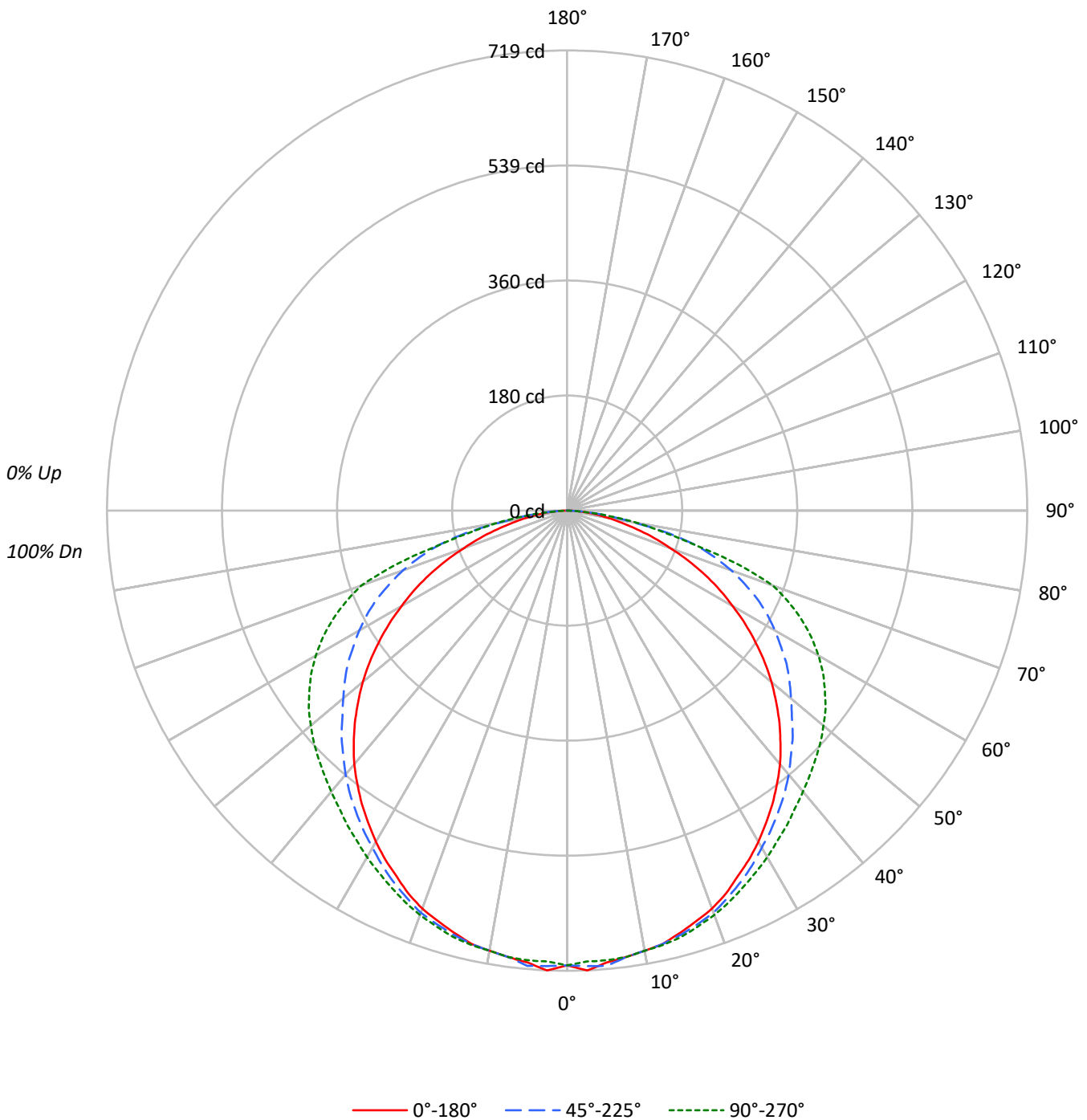
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1912	1912	1912
5°	1915	1929	1905
10°	1908	1908	1908
15°	1902	1912	1921
20°	1895	1915	1925
25°	1872	1903	1929
30°	1857	1889	1943
35°	1838	1889	1969
40°	1819	1892	2014
45°	1785	1897	2089
50°	1745	1913	2189
55°	1687	1964	2306
60°	1608	2019	2440
65°	1515	2090	2578
70°	1353	2146	2692
75°	1174	2149	2131
80°	996	1588	1723
85°	858	1071	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	193.7	8.7
20°-30°	295.2	13.2
30°-40°	361.3	16.1
40°-50°	388.7	17.4
50°-60°	376.5	16.8
60°-70°	318.9	14.3
70°-80°	192.8	8.6
80°-90°	42.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	556.4	24.9
0°-40°	917.7	41.0
0°-60°	1682.9	75.2
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	709	709	714	710	705	67
15°	683	684	686	688	690	193
25°	631	634	641	646	650	291
35°	559	563	575	591	599	350
45°	469	478	499	530	549	362
55°	360	375	419	467	492	321
65°	238	264	328	380	405	234
75°	113	153	207	210	205	121
85°	28	33	35	33	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.5	710.5	710.5	710.5	710.5
2.5°	719.2	717.5	712.3	708.8	705.3
5°	708.8	708.8	714.0	710.5	705.3
7.5°	703.6	703.6	703.6	712.3	703.6
10°	698.4	700.1	698.4	705.3	698.4
12.5°	693.2	693.2	693.2	694.9	694.9
15°	682.7	684.5	686.2	687.9	689.7
17.5°	672.3	674.0	677.5	679.3	681.0
20°	661.9	663.6	668.8	668.8	672.3
22.5°	648.0	648.0	654.9	656.7	661.9
25°	630.6	634.1	641.0	646.3	649.7
27.5°	615.0	618.5	625.4	632.4	637.6
30°	597.6	601.1	608.0	618.5	625.4
32.5°	578.5	582.0	592.4	604.6	611.5
35°	559.4	562.9	575.0	590.7	599.3
37.5°	538.5	543.8	557.7	575.0	585.4
40°	517.7	522.9	538.5	557.7	573.3
42.5°	493.4	500.3	517.7	543.8	561.1
45°	469.1	477.7	498.6	529.9	549.0
47.5°	443.0	451.7	476.0	516.0	536.8
50°	416.9	427.4	456.9	500.3	522.9
52.5°	389.1	399.6	437.8	484.7	509.0
55°	359.6	375.2	418.7	467.3	491.6
57.5°	330.1	347.4	396.1	448.2	474.3
60°	298.8	319.7	375.2	427.4	453.4
62.5°	269.3	291.9	352.7	404.8	430.8
65°	238.0	264.1	328.3	380.5	404.8
67.5°	205.0	238.0	300.5	350.9	375.2
70°	172.0	210.2	272.7	319.7	342.2
72.5°	142.5	182.4	241.5	281.4	281.4
75°	112.9	152.9	206.7	210.2	205.0
77.5°	86.9	125.1	161.6	147.7	151.1
80°	64.3	95.5	102.5	107.7	111.2
82.5°	43.4	64.3	66.0	69.5	69.5
85°	27.8	33.0	34.7	33.0	31.3
87.5°	12.2	13.9	10.4	6.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)